

NEGATIVE PRESSURE BOOSTER

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Inventor: TAKASAKI YOSHIYASU; INOUE HIDEFUMI
Applicant: BOSCH AUTOMOTIVE SYSTEMS CORP
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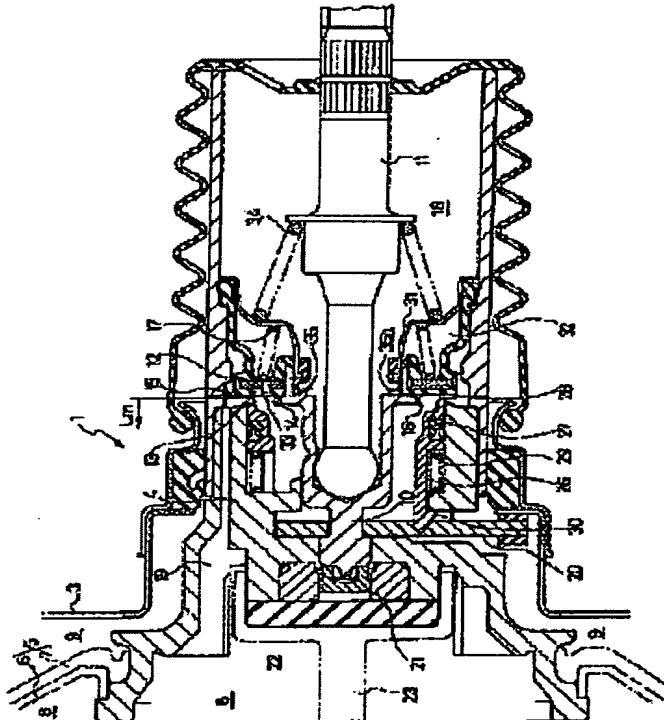
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Abstract of JP2003191834

<P>PROBLEM TO BE SOLVED: To provide a negative pressure booster allowing to increase both brake controllability in a low input region and rigidity feel in a high input region.

<P>SOLUTION: A movable valve seat 28 is airtightly and slidably arranged on a recessed part of a valve body 4. A vacuum valve 15 is constituted of the movable valve seat 28 and a valve element 12, and a valve ratio change means is constituted of the movable valve seat 28 and a control spring 29 contractively installed in the movable valve seat 28 and the valve body 4. The valve ratio change means is fixed on a valve mechanism (the vacuum valve 15). When operating, the valve element 12 abuts on the movable valve seat 28. In the low input region, the movable valve seat 28 does not move accordingly to provide a relative servo ratio during a normal time, and in the high input region, the control spring contracts and the movable valve seat 28 moves accordingly to provide a small servo ratio. Thereby, both the brake controllability in the low input region and the rigidity feel in the high input region can be provided. **<P>COPYRIGHT:** (C)2003,JPO



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